AUTHORIZATION TO PLAN AN ACADEMIC PROGRAM

BA in Social Sciences with a Concentration in Sustainable Community Food Systems
University of Hawai‘i West O‘ahu

1. Vice Chancellor for Academic Affairs Linda Randall was consulted by the Chair of the Planning Committee.

2. Campus, College, and Division requesting the ATP: University of Hawai‘i West O‘ahu (UHWO), Social Sciences, Humanities, and Business Divisions

3. Chair/Convener of Planning Committee: Monique Mironesco, Associate Professor, Political Science

Planning Committee Members:
Aurora Winslade, Director of Sustainability, UHWO
Sheryle Proper, Articulations Officer, UHWO
Kukui Maunakea-Forth, Executive Director, MA‘O Farms
Gary Maunakea-Forth, Farm Director, MA‘O Farms

4. Proposed Program
Program Category: X New ___Modified X Interdisciplinary
Degree Proposed: Concentration in Sustainable Community Food Systems

5. Description of Need for the Program
UHWO is proposing a BA in Social Sciences with a concentration in Sustainable Community Food Systems. This proposed concentration will provide students the opportunity to work in the area of food security, which is an important goal for the State of Hawai‘i. As part of our planning this concentration UHWO is partnering with MA‘O Farms and Kamehameha Schools (KS). MA‘O Farms has committed to provide practicum opportunities for the students and KS has committed to fund a position for an expert in the field to assist in the development of the program and its science courses. In addition, SCFS concentration will provide a pathway for students in the community colleges are developing a two-year Associate in Science, one-year Certificate of Achievement, and one-semester Certificate of Competence in Plant Biology and Tropical Agriculture. This new degree and certificates will focus on sustainable agriculture, which include subjects such as plan, soil, crop science, pest management, business principles and adoption sustainable systems. In addition, students from Kauai and Leeward Community Colleges will have the option to pursuing a four-year degree, which make the UHWO SCFS concentration a viable choice for them.

The concentration in Sustainable Community Food Systems (SCFS) will prepare students for support services connected with the growing sustainable agriculture and green job sector. Due to food security being one of the most important issues facing Hawai‘i today, this program is designed for students to understand the connections between politics, social justice issues, Hawaiian cultural traditions, science, business, and most importantly agriculture. This concentration is designed to prepare students to apply a diverse set of skills to the development of the sustainable agriculture industry in Hawai‘i in a variety of capacities, such as work in non-profits, education, resource management, food policy advocacy, business marketing and management, social enterprise, civic agriculture/social work, and with further training available throughout the UH system, as practitioners of sustainable farming. The State Department of Labor and Industrial Relations has established a baseline assessment of green jobs in Hawai‘i (http://dlir.state.hi.us/labor/lmi/pdf/Green_Jobs_Report_FINAL.pdf) and agriculture, forestry and
professional services relating to these two industries feature prominently in the rising number of green jobs for which the SCFS concentration will prepare students.

A) Program Learning Outcomes:
1) Develop critical thinking and communication skills applicable to social justice issues surrounding community food security and sustainability in Hawai‘i through place-based education;
2) Demonstrate knowledge of traditional Hawaiian land management and stewardship issues;
3) Demonstrate knowledge of basic agricultural, botanical, and biological sciences;
4) Demonstrate knowledge of business skills for entrepreneurs in the sustainable agriculture industry;
5) Apply skills developed in the program through experiential learning.

B) Justification of Program:
The BA in Social Sciences with a concentration in Sustainable Community Food Systems presents a unique opportunity to build upon our existing academic programs at UHWO to 1) address local and global challenges of food security and sustainability; 2) serve greater numbers of community members, especially those of Native Hawaiian ancestry; 3) provide opportunities in organic farm production, which are among the fastest growing segments of agriculture (Bureau of Labor Statistics), and 4) provide a venue for increased community engagement and participation. Students enrolled at UHWO, and students transferring from Leeward Community College have expressed interest in a Bachelor’s degree pathway related to professional work in the areas of sustainability and agriculture. Political and economic indicators support the development of such a degree to bolster the agricultural industry at this critical juncture in the state’s development. Additionally, “[g]eneral consensus supports the opinion that the future of agriculture, especially in the Pacific Islands, must be ‘sustainable.’… With Hawai‘i’s remoteness and the market forces dictating high petroleum costs in the islands, sustainable agriculture, with its emphasis on reducing fuel-dependency is an appealing choice” (Smith and El-Swaify 2006: 1-2).

Food security for a household/community entails access by all members at all times to safe, nutritious and culturally appropriate food in sufficient quantity and quality to sustain a healthy life. In addition, food secure communities should be able to define their own food, agriculture, livestock and fisheries systems, in contrast to having food largely subject to international market forces.

UHWO is dedicated to addressing Hawai‘i’s food security issues through the creation of the SCFS concentration, an applied academic program aiming to move Hawai‘i toward ecologically friendly methods of agriculture, via three strategies: 1) the development of the SCFS concentration within the Social Sciences, Humanities and Business divisions, 2) a 6-credit intensive practicum in tropical organic farm management with the collaboration of MA‘O Farms and other farms in our service area, and 3) the development of a teaching and learning venue for agricultural education and food production that will benefit the food supply chain for the campus and community-at-large.

• UHWO Goal #1 – Create a culture of effectiveness and innovation for student success;
• UHWO Goal #2 – Facilitate functional integration across the UH system;
• UHWO Goal #4 – Invest in human and physical resources; and
• UHWO Goal #5 – Capitalize on the community as a key resource.
• UHCC Goal #A-1 – Position the University of Hawai‘i as one of the world’s foremost indigenous-serving universities by supporting the access and success of Native Hawaiians.
• UHCC Goal #A-2 – Increase the educational capital of the state by increasing participation and completion of students, particularly low-income students and those from underserved regions.

C) Impact on Campus, Island, and/or the State’s Economic Development
The SCFS concentration clearly serves the following needs: 1) Educational. While the UH system offers considerable and unique choices to students in the fields of tropical agriculture, botany, business, environmental studies and Hawaiian Pacific studies and UH Manoa, in particular, has a variety of strong undergraduate and graduate programs in environmental management and agriculture, there are no programs that have actively been linked to focus specifically and exclusively on a sustainable community food systems and security perspective; 2) Applied Research. The UH system still maintains research stations in conventional tropical agriculture, and has an organic program working out of the Waimanalo research station where students could receive additional training should they want to pursue agriculture as a career. SCFS is a relatively new field of study within the Hawai’i university environment, since it is truly interdisciplinary and experiential in nature, and given that the state is 90% dependent on imported foods (http://hawaii.gov/hdoa/add/White%20Paper%20D14.pdf), there is a huge need for applied research about ways to achieve sustainable community food systems. Finally, the area served by UHWO has been identified as the most food insecure region of the State of Hawai’i (Heinrich et al, 2008).

D) How the program addresses workforce needs
A 2009 study done by researchers at UH Manoa’s College of Tropical Agriculture and Human Resource (CTAHR) found that the second priority for the organic industry in Hawai’i, right after poor water availability was the “lack of a skilled, affordable workforce.” To address this shortage, the study identified college internships and partnership “programs between colleges and farms, subsidized training to ensure qualified workers; promotion in the community of agriculture as a viable career; federal and state support/grants/policies” to remedy this problem (Radovich, Cox and Hollyer, 2009). The SCFS concentration has the potential to address this critical need for the state’s sustainable farming industry.

UHCC’s C3T grant has identified several key economic initiatives related to the agriculture sector including the development of integrated agricultural/environmental/cultural education programs as well as raising the supply of, and demand for local food. In December 2012, the State of Hawaii Department of Business, Economic Development and Tourism Research and Economic Analysis Division published Hawaii’s Targeted & Emerging Industries 2012 Updated Report. The report stated that “The 23,300 jobs in Agribusiness are found in 2012 in a range of interrelated industry groups that support and service the core farm sector… One of the high-performing groups in agribusiness during the 2002-2012 period was Agricultural Support Services. This group experienced a job growth in most years of the measurement period turning in an average 2.7% job growth per year over the 2002 to 2012 period” (http://www.uhcc.hawaii.edu/OVPCC/c3t/c3T_agriculture.php).

E) How the program aligns with system and campus
Within the context of the UH system’s report to the 2012 legislature discussing the impetus of integrating entrepreneurship into the curriculum, the SCFS concentration is poised to align with all of these goals through the intensive 6 credit farm practicum, as well as aligning with other UH programs to create degree pathways for students at all educational levels.
(http://www.uhcc.hawaii.edu/OVPCC/strategic_planning/ and http://westoahu.hawaii.edu/pdfs/strategicplan.pdf)

The curriculum addresses the issue of community food security by providing a strategic, long term and action oriented approach to solving this problem through a creation of an interdisciplinary skill set designed to provide support for the emerging sustainable agriculture industry in Hawai’i – a need designated by Governor Neil Abercrombie in his A New Day in Hawai’i plan which includes an imperative to increase the supply of locally produced foods (Abercrombie, 2010).

The proposed program aligns with several specific initiatives within the UH system. Leeward Community College’s (LCC) Community Food Systems certificate graduated 10 students in spring 2012 concurrently with their Associate of Arts degree. This number will continue to increase due to the LCC and MA‘O
Farms partnership enrolling and retaining higher numbers of students in their Community Food Systems certificate program. The UHWO campus will become an important step to furthering their academic pursuits. The UH Community College C3T grant for Career and Technical Training also identifies the agriculture industry as undergoing robust growth due to the demand for “green jobs” through 2018. The SCFS concentration at UHWO will also provide students in Windward Community College’s (WCC) upcoming Sustainable Agriculture Certificate a degree pathway to obtain a Bachelor’s degree with a relevant, topical program. The anticipated agribusiness incubator program offered through CTAHR also has several key entry and exit points that could serve UHWO graduates in the SCFS concentration in order to provide additional training should some of the graduates want become sustainable farm entrepreneurs. UH – Maui College (UHMC) also plans to offer a farmer training program through a Housing and Urban Development grant. When this program begins, we plan to collaborate with UHMC to provide an additional educational pathway to an applicable Bachelor’s degree in SCFS for their students. UHWO’s SCFS concentration would provide all of these students with opportunities for further education in this emerging field. Further, this program could serve as a pathway for students to enroll in graduate studies at UH Manoa. Discussion is already underway with CTAHR about the potential of developing a clear process for SCFS graduates to progress to CTAHR for graduate studies and we hope that similar discussions can begin with other UH Manoa departments.

1) List similar degrees or certificates offered in the UH system:
UH – Hilo: BS in Agriculture: Tropical Plant Science and Agroecology Specialty
UH – Manoa: BA in Interdisciplinary Studies with a Major Requirement in Environmental Studies
UH – Maui College: Farmer Training Program
LCC: Certificate in Community Food Systems
WCC: Certificate in Sustainable Agriculture (forthcoming)

As the concentration is planned, it is envisioned that this concentration will differ from the above programs in that it offers increased choices for students in terms of their selection of major due to UHWO’s unique major structure. It is proposed that students would receive a BA in Social Sciences, Business or Humanities with a concentration in SCFS. The SCFS concentration doesn’t only focus on agriculture, or the science behind it, but provides a holistic approach to growing food. In the new millennium, farmers need business, political, sociological, cultural, scientific and agricultural training in order to be successful entrepreneurs. SCFS proposes to provide further contextual knowledge through its interdisciplinary curriculum to interested students who may have already begun agricultural training at UHCCs. While not all graduates will become farmers, graduates will be poised to support the food system in Hawai‘i in a variety of capacities, especially through agricultural support services.

2) Describe the impact of the proposed program on current courses or programs at the campus and within the system:
It is expected that this concentration will include current courses taught on the UHWO campus and through distance learning. Most of the courses in the Social Sciences/Humanities theme are already being offered on a regular basis. The Business courses are offered on a limited basis according to student demand. With higher demand they will be offered more often. Some of the science courses are currently taught within the UH system on a limited basis at UH Manoa and UH Hilo. SCFS faculty will work with UHM and UHH to avoid duplication of courses and to develop mechanisms to allow SCFS students to enroll in courses already offered at their respective institutions. Some new courses not currently offered in the UH system may also need to be developed to be offered at UHWO.

Once they matriculate as UHWO students, SCFS students will be required to take 30 credits of classes offered within three clusters in the SCFS program: Social Sciences/Hawaiian Pacific Studies, Agriculture/Botany, and Business/Marketing along with two core classes designated specifically for the SCFS program. Students will also be required to complete a 6-credit farm practicum. Resources for one
of the core classes have already been allocated, as one faculty member teaches the course regularly. Many, though not all, of the other classes are also taught on a regular basis. In drafting its Academic Development Plan in Spring 2012, UHWO included an FTE position dedicated to SCFS in its narrative and budget request.

**BA in Social Sciences with a Concentration in Sustainable Community Food Systems Concentration**

It is being planned that SCFS will provide students with a Social Sciences, Humanities, or Business track/specialization. As students in the Division of Social Sciences, the Humanities or Business Divisions, students in the SCFS program will take the same core courses as other students in the three respective divisions, as well as three core courses: #1 Survey of Sustainable Community Food Systems in Hawai‘i (new course); #2: Political Science 335: Politics of Food (existing course); and #3 Farm Practicum (new course). In addition, students will be required to take two courses from each of three themes in the SCFS concentration:

- Theme 1: Social Sciences/Hawaiian Pacific Studies;
- Theme 2: Agriculture/Botany;
- Theme 3: Business/Marketing.

3) **If a similar program exists, consult with other campuses, identifying who and when:**

a) UHWO VCAA and faculty/staff meeting with UH Hilo Chancellor Donald Straney, Interim VCAA Kenith Simmons, College of Agriculture Interim Dean Bruce Matthews and faculty member Cam Muir on July 27, 2012 at the UH Hilo campus.

b) UHWO VCAA and faculty/staff meeting with LCC Dean of Arts and Sciences Jim Goodman and Dean of Career and Technical Education Ron Umehira, on August 28, 2012.

c) UHWO faculty/staff and CTAHR agribusiness incubator specialist Steven Chiang, meeting on August 30, 2012.

d) UHWO faculty/staff and WCC Dean Brian Richardson and faculty David Ringuette meeting on August 30th 2012.

e) UHWO faculty/staff and VCAA meeting with CTAHR Dean Maria Gallo and Associate Dean Charles Kinoshita on September 18, 2012.

f) UHWO faculty/staff email communication with UHM faculty Lilikala Kame‘eleihiwa, November 18, 2012.

g) UHWO faculty/staff email communication with UH Hilo administration, Gail Makuakane-Lundin, December 5, 2012.

h) UHWO faculty/staff, MA’O staff meeting with LCC faculty and staff Eunice Brekke, Auli‘i Silva, and Summer Miles March 8, 2013.

i) UHWO faculty/staff meeting with UHMC Agricultural Sciences Faculty Ann Emsley, March 12, 2013

j) Email communication between UHWO faculty/staff and Kauai CC Agricultural Sciences faculty Sharadchandra Marahatta, April 23, 2013.

k) Email communication between UHWO faculty/staff and Hawai‘i CC Agricultural Sciences faculty Christopher Jacobsen, April 25, 2013.

l) Continued collaboration needs to occur with all of the stakeholders in the process.

**Planning the New Program:**

a) **Planning Period:** Fall 2013 – Spring 2014

b) **Activities to be undertaken during the planning Timeline:**

1) Fall 2013: Convene planning committee

2) Fall 2013: Define sustainable SCFS concentration learning outcomes
3) Fall 2013: Identify articulation options with UH Community Colleges
4) Spring 2014: Start hiring process for one new faculty to teach core course #1: SCFS 496
5) Spring 2014: Development and completion of curricula through UHWO Curriculum Committee
6) Spring 2014: Determine unidentified resource needs
7) Summer 2014: Complete hiring process for new faculty

c) Submission Date of Program Proposal: Spring 2014

4) Workload/Budget implications during planning period:
Program planning will be carried out by the Chair of the planning committee on assigned time.

5) How will the program be economically sustainable?
Initially, the program will rely upon General Funds for existing faculty salaries since they will be teaching courses that are already being taught at UHWO in existing programs and degrees. The FTE will be hired with special funds/tuition revenue.

6) Impact of the program on accreditation:
The proposed concentration will have a positive impact on accreditation because it addresses many of the UHWO and UH system wide goals.

7) How will the program fit within the campus and/or system organizational structure?
While the BA in Social Sciences’ SCFS concentration is interdisciplinary and contains options for students to take courses in Social Sciences, Humanities or Business divisions, the FTE will be housed in the Social Sciences division due to the program’s emphasis on social justice issues. It will also serve to further connect the degree pathways between UH community colleges and UHWO through articulation agreements based upon relevant courses at the lower and upper division levels.

Description of resources required:
1) Faculty:
Existing: Ten FTE faculty members already teach courses in Math, English, Anthropology, Political Science, Hawaiian Pacific Studies, Sociology, Early Childhood Education, Business Accounting and Marketing which are all disciplines included in the proposed concentration. Assigned time will be granted to the faculty member significantly involved in overseeing the academic program.
New: One FTE faculty member will be hired to teach Survey of Hawai‘i Sustainable Community Food Systems (core course #1), as well as agricultural science and botany classes from theme #2 of the proposed curriculum so that students can matriculate through the program in a reasonable amount of time. This FTE will be hired with special funds/tuition revenue and a legislative request will be made as soon as possible for a tenure track position, which will subsequently be recruited.

2) Library Resources:
Several journal subscriptions will be requested for acquisition for the UHWO library. Additional reference materials will be explored in the planning process.

3) Physical Resources:
The new UHWO campus provides plenty of classroom space for any additional courses needed.

4) Other resources required:
UHWO will need to develop additional science courses to serve this program. Kamehameha Schools funding for an expert in the field of agroecology has been granted to hire a temporary FTE to develop and teach the agroecology specific science courses. It hasn’t been noted in the mini-cost template as
Five Year Business Plan:

1) What will be the annual costs to implement the program?

The annual costs to implement the program will range from $77,810 in year two to $85,469 in year five due to faculty salary and supplies.

2) What will be the projected enrollment and estimated tuition revenue?

The projected enrollment will be 15 students by year three and 25-30 students by year 5. These are conservative estimates. LCC’s Certificate in Community Food Security is graduating increasing numbers of students, and potential articulation agreements with Kaua‘i CC as well as UHMC will increase the potential pool of students interested in the program. The tuition revenue will range from $37,395 in year two to $250,500 in year five.

3) How will the program be funded?

Funding will come from Special Funds for one new FTE faculty through a grant from Kamehameha Schools’ ‘Aina-Based Education Division under the Na Mamo Mahi’ai Growing Farmers Initiative. Existing faculty will teach program courses and lecturers may be hired to teach additional courses. A program coordinator will be hired when enrollment is sufficient to support this position.

4) Does the current or proposed budget include funds or a request for funds for proposed program?

The program will be requesting funding for faculty salary after the extramural funding expires in three years’ time.

5) Given a “flat-budget” situation or if anticipated enrollment does not materialize, how will the proposed program be funded?

The size of the program will be adjusted up or down as demand and revenues permit. The annual costs to implement the program will be minimal for the first three years. The core classes needed by the students for the SCFS concentration are already taught on a regular basis. One new FTE faculty will be hired to teach Survey of Hawai‘i Sustainable Community Food Systems (core course #1) as well as the agricultural sciences/botany courses needed for the program. The farm practicum will be overseen by UHWO faculty already teaching established practicum courses in each of the divisions requesting the ATP.

6) Describe the impact on current courses and programs

The SCFS concentration will have a positive impact on enrollment for the Social Sciences and Business Divisions, as well as several of the courses in the Humanities Division which tend to be under-enrolled. This concentration will complement existing programs at the UHWO campus as well as provide a flagship program to support and illustrate UHWO’s commitment to sustainability.

7) If the curriculum includes courses that are offered at other UH campuses, describe how articulation of these courses will be assured prior to the program proposal submission.

At the moment, the only courses taught at other campuses are from the second agriculture/science theme. Collaboration with CTAHR is already underway to offer some of the theme #2 courses online for SCFS students through UH Manoa. UHWO will continue to identify opportunities for enrollment in existing courses at UH Manoa and UH Hilo and will not duplicate courses already offered. All of the other courses are taught at UHWO on a regular basis. The FTE requested for the SCFS concentration will be an expert in the field of sustainable community food systems as well as agricultural sciences and will be able to teach courses in Theme 2 not currently offered on other UH campuses and ensure that SCFS students will
not have to rely exclusively on other campuses to take science-based sustainable agriculture courses. We will continue to work with the community colleges in the UH system to ensure articulation agreements are in place for students transferring into the SCFS concentration with targeted AA sustainable agriculture degrees such as those at LCC and WCC.

8) If this program is multidisciplinary, provide evidence of commitment for support from the colleges, departments, programs, and/or individuals expected to participate.
This program is clearly interdisciplinary in nature. We have attached letters of support from UHWO faculty whose courses and programs would be affected. We have also made extensive outreach efforts to other campuses in the UH system to explore opportunities for collaboration in the future. Please see Appendix A for those letters of support.

Bibliography
C3T. “Agriculture.” http://www.uhcc.hawaii.edu/OVPCC/c3t/c3T_agriculture.php
UH Community Colleges Consortium Grant. “C3T Hawai‘i: Addressing Workforce Needs Through Results Driven Educational and Training Programs. Part II: Technical Proposal.”
<table>
<thead>
<tr>
<th>YEAR</th>
<th>2014-15</th>
<th>2015-16</th>
<th>2016-17</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PROGRAM COSTS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculty w/o fringe (1 FTE in Year 2)</td>
<td>70,000</td>
<td>70,000</td>
<td>80,000</td>
</tr>
<tr>
<td>Other personnel costs w/o fringe</td>
<td>5,310</td>
<td>5,469</td>
<td>5,469</td>
</tr>
<tr>
<td>Library</td>
<td>595</td>
<td>450</td>
<td>0</td>
</tr>
<tr>
<td>Equipment/ Supplies</td>
<td>2,500</td>
<td>0</td>
<td>1,500</td>
</tr>
<tr>
<td>Other –</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL Expenses</strong></td>
<td>$78,405</td>
<td>$75,919</td>
<td>$85,469</td>
</tr>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Projected Enrollment</td>
<td>9</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>No. of Courses</td>
<td>5</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>No. of Credits</td>
<td>15</td>
<td>18</td>
<td>24</td>
</tr>
<tr>
<td>SSH</td>
<td>135</td>
<td>270</td>
<td>480</td>
</tr>
<tr>
<td>Tuition Rate/Credit (Resident)</td>
<td>277</td>
<td>302</td>
<td>329</td>
</tr>
<tr>
<td>Total Revenue from Tuition</td>
<td>$37,395</td>
<td>$81,540</td>
<td>$157,920</td>
</tr>
<tr>
<td>Other Sources of Income</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL REVENUES</strong></td>
<td>$37,395</td>
<td>$81,540</td>
<td>$157,920</td>
</tr>
</tbody>
</table>